

## Advanced Java Lab

### Week-5

**Roll Number: 238W1A1269**

- 1. Use RequestDispatcher and sendRedirect() to forward/redirect requests.**

**Code:**

**First Servlet.java:**

```
package com.mycompany.servlets;

import java.io.IOException;
import javax.servlet.*;
import javax.servlet.http.*;

public class FirstServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {
        req.setAttribute("message", "Forwarded using RequestDispatcher!");
        RequestDispatcher rd = req.getRequestDispatcher("forward");
        rd.forward(req, res);
    }
}
```

**ForwardServlet.java:**

```
package com.mycompany.servlets;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.*;
import javax.servlet.http.*;

public class ForwardServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {
        res.setContentType("text/html");
        PrintWriter out = res.getWriter();

```

```
        String msg = (String) req.getAttribute("message");

        out.println("<h2>Forward Servlet</h2>");
        out.println("<p>Message: " + msg + "</p>");
    }
}
```

#### **Redirectservlet.java:**

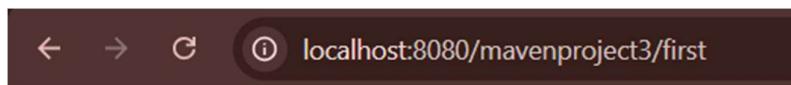
```
package com.mycompany.servlets;

import java.io.IOException;
import javax.servlet.*;
import javax.servlet.http.*;

public class RedirectServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.sendRedirect("https://www.google.com");
    }
}
```

#### **Output:**



## **Forward Servlet**

Message: Forwarded using RequestDispatcher!

## **2. Pass and display attributes between servlets using setAttribute().**

#### **Code:**

#### **Attributesender.java:**

```
package com.mycompany.servlets;

import java.io.IOException;
import javax.servlet.*;
import javax.servlet.http.*;

public class AttributeSender extends HttpServlet {
```

```

@Override
protected void doGet(HttpServletRequest req, HttpServletResponse res)
    throws ServletException, IOException {

    req.setAttribute("studentName", "Bharath");
    req.setAttribute("course", "Advanced Java");

    RequestDispatcher rd = req.getRequestDispatcher("showAttributes");
    rd.forward(req, res);
}
}

```

### ShowAttributes.java:

```

package com.mycompany.servlets;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.*;
import javax.servlet.http.*;

public class ShowAttributes extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {

        res.setContentType("text/html");
        PrintWriter out = res.getWriter();

        String name = (String) req.getAttribute("studentName");
        String course = (String) req.getAttribute("course");

        out.println("<h2>Received Attributes</h2>");
        out.println("<p>Name: " + name + "</p>");
        out.println("<p>Course: " + course + "</p>");
    }
}

```

### Output:



### Received Attributes

Name: Bharath

Course: Advanced Java